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CCL27-CCR10 interactions regulate T cell-mediated skin inflammation.

Homey B, Alenius H, Muller A, Soto H, Bowman EP, Yuan W, McEvoy L, Lauerma AI, Assmann T, Bunemann E, Lehto M, Wolff H, Yen D, Marxhausen H, To W, Sedgwick J, Ruzicka T, Lehmann P, Zlotnik A.

DNAX Research Institute, Palo Alto, California, USA. berhard.homey@uni-duesseldorf.de

skin-homing T cells in vitro. Here we report that most skin-infiltrating lymphocytes in patients suffering from psoriasis, atopic or allergic-contact dermatitis express CCR10. Epidermal basal keratinocytes produced CCL27 protein that bound to extracellular matrix, mediated adhesion and was displayed on the surface of dermal endothelial cells. Tumor necrosis factor-alpha and interleukin-1beta induced CCL27 production whereas the glucocorticosteroid clobetasol propionate suppressed it. Circulating skin-homing CLA+T cells, dermal microvascular endothelial cells and fibroblasts expressed CCR10 on their cell surface. In vivo, intracutaneous CCL27 injection attracted lymphocytes and, conversely, neutralization of CCL27-CCR10 interactions impaired lymphocyte recruitment to the skin leading to the suppression of allergen-induced skin inflammation. Together, these findings indicate that CCL27-CCR10 interactions have a pivotal role in T cell-mediated skin inflammation. The skin-associated chemokine CCL27 (also called CTACK, ALP and ESkine) and its receptor CCR10 (GPR-2) mediate chemotactic responses of

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Differential injury responses in oral mucosal and cutaneous wounds.

Szpaderska AM, Zuckerman JD, DiPietro LA.

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Burn and Shock Trauma Institute, Department of Surgery, Loyola University Medical Center, 2160 S. First Ave., Maywood, IL 60153, USA

privileged healing of oral injuries involves a differential inflammatory phase, we compared the inflammatory cell infiltrate and cytokine production in wounds of equivalent size in oral mucosa and skin. Significantly lower levels of macrophage, neutrophil, and T-cell infiltration were observed in oral vs. dermal wounds. RT-PCR analysis of inflammatory cytokine production demonstrated that oral wounds contained significantly less IL-6 and KC than did skin wounds. Similarly, the level of the pro-fibrotic cytokine TGF-b1 was lower in mucosal than in skin wounds. No significant differences between skin and mucosal wounds were observed for the expression of the anti-inflammatory cytokine IL-10 and the TGF-betal modulators, fibromodulin and LTBP-1. These findings demonstrate that diminished inflammation is a key feature of the privileged repair of oral Oral mucosa heals faster than does skin, yet few studies have compared the repair at oral mucosal and cutaneous sites. To determine whether the

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CCR10 Expression by Malignant Melanoma Cells: Implications for Tumor Growth and Metastasis

A. Müller¹, S. N. Wagner², E. P. Bowmann³, T. Ruzicka¹, A. Zlotnik⁴, and B. Homey¹.

Departments of Dermatology and Radiation Oncology, Heinrich-Heine University, Moorenstrasse 5, D-40225 Düsseldorf, Germany; Department of Dermatology, University of Vienna, Austria; DNAX Research Inc., Palo Alto, CA, USA; Seos Blotechnology, South San Francisco, CA, USA.

together, our findings suggest that CCR10 expression by malignant melanoma expressing malignant clones. Immunohistochemical analyses confirmed CCR10 expression by MelanA-positive melanoma cells. In vitro, CCR10 signaling cells plays a role in primary tumor growth and the development of skir primary tumor growth of human melanoma cells in a SCID mouse model. Taken mediated migration and invasion of malignant melanoma cells and significantly induced their proliferation. In vivo, neutralization of mCCL27 resulted in delayec expression compared to primary tumors suggesting the selection for CCR10-high metastases of malignant melanoma show significantly increased CCR10 mRNA melanoma tumors express high levels of CCR10 mRNA. Notably, skin demonstrate that malignant melanoma cell lines as well as primary malignant lung. Furthermore, we identified the novel skill-associated concentrations. CCL27(CTACK, ALP, ESkine) and its receptor CCR10(GPR-2) which specifically we netastases mediate the recruitment of lymphocytes into the skin. In the present study, we other malignancies, malignant melanoma also shows a high frequency of skin involved in the development of organ-specific metastasis to lymph nodes and metastases. Recently, we showed that chemokine receptors such as CXCR4 are Malignant Melanoma shows aggressive primary tumor growth and metastasizes nto local draining lymph nodes, lung, liver, brain and bone marrow. In contrast to

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